and modifications as reasonably come within our contribution to the art.--

IN THE CLAIMS:

On page 6 of the claims, delete "**PATENT CLAIMS**" and substitute --**WE CLAIM AS OUR INVENTION**--.

Please cancel claims 1-16 without prejudice.

Please substitute claims 17-38 as follows:

17. A broadband communication system, comprising:

a plurality of cordless communication devices connected to one another for cordless communication with at least one communication terminal within a communication cell; and

the cordless communication devices being connected to a power supply network and designed for broadband data transmission via the power supply network.

18. The communication system according to claim 17 wherein the cordless communication devices are designed for cordless data transmission via radio.

19. The communication system according to claim 17 wherein the cordless communication devices are designed for cordless data transmission via infrared radiation.

20. The communication system according to claim 19 wherein the data transmission between the cordless communication devices and the communication terminal

occurs with amplitude modulation of an infrared base band.

21. The communication system according to claim 17 wherein the data transmission between the cordless communication device and the communication terminal occurs by higher-grade digital modulation.

22. The communication system according to claim 19 wherein the infrared radiation has a wavelength from 800 nm to 100 nm.

23. The communication system according to claim 19 wherein the infrared radiation has a wavelength from 1200 nm to 1400 nm.

24. The communication system according to claim 19 wherein a source of the infrared radiation comprises a surface-emitting semiconductor laser.

25. The communication system according to claim 17 further comprising a control unit for controlling data communication between the cordless communication devices.

26. The communication system according to claim 25 wherein the control unit produces a connection to an external communication network.

27. The communication system according to claim 26 wherein the connection to the external communication

network is produced with at least one of a coaxial cable and an optical fiber cable.

28. The communication system according to claim 26 wherein the connection to the external communication network occurs via a radio connection.

29. The communication system according to claim 17 wherein the cordless communication devices are designed for data transmission via at least one of a 230 volt and a 110 volt power supply network.

30. The communication system according to claim 17 wherein the communication cell is formed by a room in a building.

31. The communication system according to claim 17 wherein the cordless communication devices are designed to be screwed into an incandescent bulb socket.

32. The communication system according to claim 31 wherein at least one of the cordless communication devices comprises its own incandescent bulb socket.

33. A broadband communication system, comprising:

at least first and second cordless communication devices in respective first and second communication cells separated from each other by a wall, the first and second communication devices being connected to each other via a power supply network permitting broadband

data transmission via the power supply network between the first and second cordless communication devices; and

at least one communication terminal within at least one of said first and second communication cells which communicates with at least one of the first and second cordless communication devices depending upon which cell the at least one cordless communication device is located in.

34. The system according to claim 33 wherein at least one of the cordless communication devices is plugged into a power outlet of the power supply network.

35. The system according to claim 33 wherein at least one of the cordless communication devices is screwed into a light bulb receptacle of the power supply network.

36. The system according to claim 33 wherein the broadband data transmission occurs with the at least one communication terminal at a frequency greater than 10 GHz.

37. A method for broadband communication, comprising the steps of:

providing at least first and second cordless communication devices located in respective first and second communication cells;